

Steam turbine generator fan flange welding

What role does welding play in the economic management of steam generator components?

Conclusion Repair welding plays a very important role in the economic management of steam generator components. have reached that have welding repairs regulations. Technology Group. Figure 15.

How does GE repair a steam turbine?

GE has developed an array of proven repair techniques for all parts of the industrial steam turbine. Rotor repairs, straightening, balancing, weld repairs, disc head repairs, disassembly, and rebuild The repairs are usually executed in our specialized repair workshops or even on-site with our mobile repair equipment.

Do generator rotor fan vanes & blower blades fail?

The potential failure of generator rotor fan vanes and blower blades has been identified as an area for detailed risk assessment in the electric power generation industry. Liberation of fan component has caused catastrophic damage to both the rotor and stator components on a number of units.

Why do generator fan wheels fail?

Similar to retaining rings, these surfaces are subject to larger interference fits which should periodically be inspected. The failure mechanisms most common to generator fan wheels include: low cycle fatigue, high cycle fatigue, brittle fracture, corrosion and erosion.

Which filler metal is used to repair cracks in a pump turbine?

Cracks in the casing of a pump turbine made of DIN 14315 standard cast material number 1 0553 was also successfully repaired (Geissler 1992) using build-up welding under inductive preheating at 423K using E515 B11020(H) electrodes. This filler metal was selected on the basis of its good toughness values.

Does GE provide spare parts for industrial steam turbines?

GE provides spare parts for its legacy machines and for a large number of non-GE industrial steam turbines. GE's extensive expertise in reverse engineering enables us to support our customers with standard and complex industrial steam turbine parts during ongoing overhauls.

Generator rotor fans/blowers are critical, highly-stressed components justifying design scrutiny, proper material selection, quality fabrication techniques, and judicious non-destructive examination. Failure ...

Our flexible and cost-effective steam turbine solutions can help operators reduce equipment downtime and extend the life of steam turbine components. Steam Turbine Inspections - Field Services Power Service Group's extensive steam ...

The blind flange joint with raised faces and compensating sleeves considered for the present study is shown in

Fig.1. It consists of a weld-neck flange, a blind flange, compensating sleeves ...

o The welding station is capable of performing weld repairs/restorations of steam turbine, gas turbine, and generator rotating fields up to 45" in length, 12" in diameter, and 100 tons in weight. o Koike-Aronson Rotor Welding Station with ...

This is Part Two of a three part Turbine Tip series, discussing the most common steam turbine casing problems: cracking, distortion and erosion.. Welding is a common method to repair turbine casing cracks, but it ...

steam turbines particularly appropriate for operation under advanced steam conditions. The steam admission is designed as a scroll for all turbine sections, resulting in a low-loss steam flow in ...

Dresser Rand steam turbines are wonderful machines, but over time will need regular maintenance to avoid wear and tear. S.T. Cotter Turbine has the extensive experience needed to provide a large assortment of steam turbine ...

This three part Turbine Generator Tip discusses the most common steam turbine casing problems: cracking, distortion and erosion. Most units can be repaired by grinding, welding or by pre-stressed mechanical ...